

SEMICONDUCTOR TYPE TWO PHASE LOCKED LOOP FILTER

ABSTRACT OF THE DISCLOSURE

5 There is described a semiconductor Type Two phased
locked loop filter having a passive capacitor part and a
variable active resistor part, the variable active resistor
part being integrated with the passive capacitor part.
Integrating an active variable resistor will apply the same
10 change to both poles and has no effect on the loop gain.
The variable active resistor part is controlled by a
resistor regulator circuit operating from a voltage that
follows the type two phased locked loop voltage. The
resistor regulator circuit is bootstrapped to the phased
15 locked loop voltage using a voltage follower configured
op-amp.